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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,782	11/16/2007	Gaetano T. Montelione	RUT0002-00US	1781
29880 FOX ROTHSC	7590 10/17/200 HILD LLP	EXAMINER		
	PIKE CORPORATE C	SALIMI, ALI REZA		
2000 Market Street Tenth Floor Philadelphia, PA 19103			ART UNIT	PAPER NUMBER
			1648	
			MAIL DATE	DELIVERY MODE
			10/17/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/534,782	MONTELIONE ET AL.		
Office Action Summary	Examiner	Art Unit		
	A R. Salimi	1648		
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION (136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>24 S</u> This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for alloward closed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) Claim(s) 1-42 is/are pending in the application 4a) Of the above claim(s) 5-7,10 and 13-42 is/a 5) Claim(s) is/are allowed. 6) Claim(s) 1-4, 8, 9, 11, and 12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on 30 July 2007 is/are: a)	are withdrawn from consideration. or election requirement. er.			
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	tion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate		

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of Group I (claims 1-4, 8, 9, 11, and 12 wherein NS1 is protein of Influenza A) in the reply filed on 09/24/2008 is acknowledged.

Claims 5-7, 10, 13-42 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected Non-elected Groups. Election was made **without** traverse in the reply filed on 09/24/2008.

Applicant is reminded to cancel the claims to the non elected Group(s).

Information Disclosure Statement

The references cited in the Search Report 07/30/2007 have been considered, but will not be listed on any patent resulting from this application because they were not provided on a separate list in compliance with 37 CFR 1.98(a)(1). In order to have the references printed on such resulting patent, a separate listing, preferably on a PTO/SB/08A and 08B form, must be filed within the set period for reply to this Office action.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 8, 9, 11-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Wang et al (Virology, 1996, Vol. 223, pp 41-50).

Wang et al taught NS1 domain of influenza A and it's binding to dsRNA (see the abstract). In addition, they taught labeled fusion protein to NS1 (see page 42, right column, last full paragraph).

Additionally, under inherency doctrine where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or substantially identical processes, a prima facie case of either anticipation or obviousness has been established. See, <u>In re Best</u>, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). Still further, the fact that a characteristic is a necessary feature or result of a prior-art embodiment (that is itself sufficiently described and enabled) is enough for inherent anticipation, even if that fact was unknown at the time of the prior invention. See, <u>Toro Co. v. Deere & Co.</u>, 355 F.3d 1313, 1320, 69 USPQ2d 1584, 1590 (Fed. Cir. 2004).

Moreover, there is no requirement that a person of ordinary skill in the art would have recognized the inherent disclosure at the time of invention, but only that the subject matter is in

fact inherent in the prior art reference. See, Schering Corp. v. Geneva Pharm. Inc., 339 F.3d 1373, 1377, 67 USPQ2d 1664, 1668 (Fed. Cir. 2003).

Still further, Wang et al taught a 55 base pair dsRNA (see page 44). However, the invention as a whole is prima facie obvious, because the Applicants' own disclosure in page 21 lines 28 to 29 asserts "the Length and ribonucleotide sequence of the dsRNA are not critical." Applicants go on to assert that the invention may be conducted using short synthetic dsRNA. Thus, one of ordinary skill in the art at the time of filing would have been motivated by teaching of Wang et al to utilize the binding assay for drug discovery. Especially given Applicants' own admission in the disclosure that the size of the dsRNA is not critical. Therefore, given the teaching of the prior art one of ordinary skill in the art at the time of filing would not have anticipated any unexpected results. Applicants are reminded that the combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results. See KSR Int'l Co. v. Teleflex Inc., 550 U.S. (2007). Thus, the invention as a whole is deemed prima facie obvious absent any unexpected results.

Claims 1-4, 8, 9, 11-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over LU et al (Virology, 1995, Vol. 214, pp 222-228)

Lu et al taught NS1 binding to dsRNA (see the abstract). In addition, they taught labeled fusion protein to NS1 (see Figure 1).

Additionally, under inherency doctrine where the claimed and prior art products are identical or substantially identical in structure or composition, or are produced by identical or

substantially identical processes, a prima facie case of either anticipation or obviousness has been established. See, <u>In re Best</u>, 562 F.2d 1252, 1255, 195 USPQ 430, 433 (CCPA 1977). Still further, the fact that a characteristic is a necessary feature or result of a prior-art embodiment (that is itself sufficiently described and enabled) is enough for inherent anticipation, even if that fact was unknown at the time of the prior invention. See, <u>Toro Co. v. Deere & Co.</u>, 355 F.3d 1313, 1320, 69 USPQ2d 1584, 1590 (Fed. Cir. 2004).

Moreover, there is no requirement that a person of ordinary skill in the art would have recognized the inherent disclosure at the time of invention, but only that the subject matter is in fact inherent in the prior art reference. See, <u>Schering Corp. v. Geneva Pharm. Inc.</u>, 339 F.3d 1373, 1377, 67 USPQ2d 1664, 1668 (Fed. Cir. 2003).

LU et al taught a 29 base pair dsRNA (see page 223). However, the invention as a whole is prima facie obvious, because the Applicants' own disclosure in page 21 lines 28 to 29 asserts "the Length and ribonucleotide sequence of the dsRNA are not critical." Applicants go on to assert that the invention may be conducted using short synthetic dsRNA. Thus, one of ordinary skill in the art at the time of filing would have been motivated by teaching of LU et al to utilize the binding assay for drug discovery. Especially given Applicants' own admission in the disclosure that the size of the dsRNA is not critical. Therefore, given the teaching of the prior art one of ordinary skill in the art at the time of filing would not have anticipated any unexpected results. Applicants are reminded that the combination of familiar elements according to known methods is likely to be obvious when it does no more than yield predictable results. See KSR Int'l Co. v. Teleflex Inc., 550 U.S. (2007). Thus, the invention as a whole is deemed prima facie obvious absent any unexpected results.

No claims are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to A. R. Salimi whose telephone number is (571) 272-0909. The

examiner can normally be reached on Monday-Friday from 9:00 Am to 6:00 Pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Bruce Campell, can be reached on (571) 272-0974. The Official fax number is (571)

273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Group receptionist whose telephone number is (571) 272-1600.

Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/A R Salimi/

Primary Examiner, Art Unit 1648

10/14/2008

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